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       8
                  MEDLINE update schedule for December 2004
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15 DEC 30
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                  CAPLUS - PATENT COVERAGE EXPANDED
       16 JAN 03
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                  No connect-hour charges in EPFULL during January and
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       17 JAN 26
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                  Agency for Patents and Trademarks (ROSPATENT)
 NEWS
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 NEWS
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 NEWS EXPRESS
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     Amylases variants producing reduced immunogenic response, methods of
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     Harding, Fiona A.
Genencor International, Inc., USA
IN
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      Substitution variants of .alpha.-amylase with improved activity in
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      Bessler, Cornelius; Schmitz, Susanne; Schmitt, Jutta; Schmid, Rolf
IN
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      Henkel K.-G.a.A., Germany
      Ger. Offen., 58 pp.
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      137:381698
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      Bacillus .alpha.-amylase variants with altered properties and their uses
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      Svendsen, Allan; Andersen, Carsten; Thisted, Thomas; Von der Osten, Claus
IN
     Novozymes A/S, Den.
PA
      PCT Int. Appl., 168 pp.
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     Bacillus strains KSM-36 and KSM-38 .alpha.-amylase variants with altered
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IN
     Andersen, Carsten
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     Novozymes A/S, Den.
     PCT Int. Appl., 69 pp.
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     Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved
TI
     thermostability, recombinant expression, and detergent use
Araki, Hiroyuki; Endo, Keiji; Hagiwara, Hiroshi; Igarashi, Kazuaki;
IN
     Hayashi, Yasuhiro; Ozaki, Katsuya
     Kao Corp., Japan
Jpn. Kokai Tokkyo Koho, 28 pp.
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     Tertiary structure modeling of Bacillus .alpha.-amylases and construction
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     of variants with altered solubility and related enzymic properties
     Andersen, Carsten; Borchert, Torben Vedel; Nielsen, Bjarne Ronfeldt
IN
     Novozymes A/S, Den.
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     Production of oxidatively stable Bacillus .alpha.-amylase recombinant
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     Barnett, Christopher C.; Mitchinson, Colin; Power, Scott D.; Requadt,
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     U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 16,395, abandoned. CODEN: USXXAM
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     Mutant .alpha.-amylases with improved thermal stability for use in
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     Andersen, Carsten; Jorgensen, Christel Thea; Bisgard-Frantzen, Henrik; Svendsen, Allan; Kjaerulff, Soren
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      Svendsen, Allan; Kjaerulff, Soren; Bisgard-Frantzen, Henrik; Andersen,
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      2000:630815 HCAPLUS
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      Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved
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      thermostability, recombinant expression, and detergent use
Igarashi, Kazuaki; Endo, Keiji; Hayashi, Yasuhiro; Hagiwara, Hiroshi;
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     Novel .alpha.-amylase mutants of Bacillus amyloliquefaciens with
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     appropriate thermostability and their use for bakery products
     Tamakawa, Shinichiro; Yoshida, Masaharu; Minoda, Masashi; Takahashi,
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     Satoko; Hidaki, Yumiko; Tani, Masakazu; Hashimoto, Tetsushi
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     Jpn. Kokai Tokkyo Koho, 22 pp.
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     134:321381
     Cell-associated degradation affects the yield of secreted engineered and
     heterologous proteins in the Bacillus subtilis expression system
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     Jensen, Christina L.; Stephenson, Keith; Jorgensen, Steen T.; Harwood,
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     Bacterial Gene Technology, Novo Nordisk A/S, Bagsvaerd, DK-2880,
     Microbiology (Reading, United Kingdom) (2000), 146(10), 2583-2594
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     Maltogenic _alpha.-amylase variants with altered properties
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     Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars;
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     Mutant Bacillus licheniformis alpha-amylase with improved low pH
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     Preparation of Bacillus .alpha.-amylase mutant suitable for preparation of
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     Hatadā, Yuji; Ikawa, Kaori; Ito, Susumu
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WEST Search History

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Search Results - Record(s) 1 through 10 of 29 returned.

1. Document ID: US 20040096952 A1

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L8: Entry 1 of 29

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040096952

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040096952 A1

TITLE: Alpha-amylase variant with altered properties

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Svendsen, AllanHorsholmDKAndersen, CastenVaerloseDKThisted, ThomasFrederikssundDKVon Der Osten, ClausLyngbyDK

US-CL-CURRENT: 435/202; 435/252.31, 510/226, 510/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, C
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2. Document ID: US 20040038368 A1

L8: Entry 2 of 29 File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038368

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038368 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Borchert, Torben Vedel Copenhagen O DK
Svendsen, Allan Birkerod DK
Andersen, Carsten Vaerloese DK
Nielsen, Bjarne Virum DK

Nissen, Torben Lauesgaard

Frederiksberg

DK

Kjaerulff, Soren

Vanlose

DK

US-CL-CURRENT: <u>435/202</u>

Full Title Citation Front	Review Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Отави Ов
	·							

3. Document ID: US 20030211958 A1

L8: Entry 3 of 29

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211958

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030211958 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Birkerod		DK	
Borchert, Torben Vedel	Copenhagen		DK	
Bisgard-Frantzen, Henrik	Bagsvaerd		DK	
Outtrup, Helle	Ballerup		DK	
Nielsen, Bjarne Ronfeldt	Virum		DK	
Nielsen, Vibeke Skovgaard	Bagsvaerd		DK	
Hedegaard, Lisbeth	Skodsborg		DK	

US-CL-CURRENT: 510/226; 435/202, 435/320.1, 435/325, 435/69.1, 510/320, 536/23.2

Full Title Citation Front	Review Classification Date	Reference Sequences	Attachments Claims	KuwiC Drawa De

4. Document ID: US 20030129718 A1

L8: Entry 4 of 29

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129718

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030129718 A1

TITLE: Amylase variants

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Andersen, Carsten Vaerlose DK Borchert, Torben Vedel Birkerod DK

Page 3 of 5

Record List Display

Nielsen, Bjarne Ronfeldt

Virum

DK

US-CL-CURRENT: 435/183; 510/392

Draw	HOME	Claims	Affachments	Sequences	Reference	Date	Classification	Review	Front	Citation	Title	Full

5. Document ID: US 20030044954 A1

L8: Entry 5 of 29

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044954 A1

TITLE: Alpha-amylase variants

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Andersen, Carsten Vaerlose DK Kobenhavn O DK Jorgensen, Christel Thea Bisgard-Frantzen, Henrik Bagsvaerd DK Birkerod DK Svendsen, Allan Kjaerulff, Soren Vanlose DK

US-CL-CURRENT: 435/202; 435/320.1, 435/325, 435/69.1, 536/23.2

Title Citation Front Review Classification Date Reference S	Sequences Attachments Claims KMC Drai
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6. Document ID: US 20020155574 A1

L8: Entry 6 of 29

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155574

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155574 A1

TITLE: Alpha-amylase mutants with altered properties

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

STATE COUNTRY RULE-47 NAME CITY DK Thisted, Thomas Rungsted Kyst Vanlose DK Kjaerulff, Soren DK Andersen, Carsten Vaerloese Fuglsang, Claus Crone Niva DK

US-CL-CURRENT: 435/202; 435/203, 435/320.1, 435/325, 435/69.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Do

7. Document ID: US 20020068352 A1

L8: Entry 7 of 29

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020068352 A1

TITLE: Alpha-amylase variants with altered 1, 6-activity

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Svendsen, Allan Horsholm DK Jorgensen, Christel Thea Kobenhavn O DK Nielsen, Bjarne Ronfeldt Virum DK

US-CL-CURRENT: 435/202; 435/183, 435/195, 435/69.1, 510/392, 510/393

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

8. Document ID: US 20010039253 A1

L8: Entry 8 of 29 File: -PGPB Nov 8, 2001

PGPUB-DOCUMENT-NUMBER: 20010039253

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039253 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Borchert, Torben Vedel Copenhagen O DΚ Svendsen, Allan Birkerod DK Andersen, Carsten Vaerloese DK DK Virum Nielsen, Bjarne Nissen, Torben Lauesgaard Frederiksberg C DK

Kjarulff, Soren Vanlose DK

US-CL-CURRENT: 510/392; 510/305, 510/306

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

9. Document ID: US 6528298 B1

L8: Entry 9 of 29

File: USPT

Mar 4, 2003

US-PAT-NO: 6528298

DOCUMENT-IDENTIFIER: US 6528298 B1

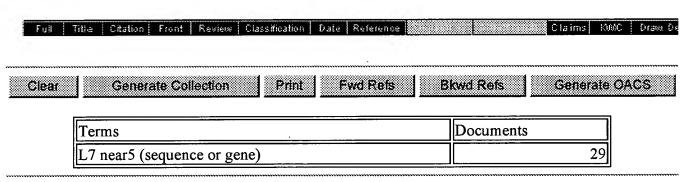
TITLE: .alpha.-amylase mutants

Full Title Citation Front Review Classifi	ication Date Reference	Claims KMC Draw Do
☐ 10. Document ID: US 642898	31 B1	
L8: Entry 10 of 29	File: USPT	Aug 6, 2002

US-PAT-NO: 6428981

DOCUMENT-IDENTIFIER: US 6428981 B1

TITLE: Bacillus protein production cell



Change Format Display Format: |-Previous Page Next Page Go to Doc#

Clear Generale Collection Print Fwd Refs Bkwd Refs
Generate DACS

Search Results - Record(s) 11 through 20 of 29 returned.

11. Document ID: US 6410295 B1

Using default format because multiple data bases are involved.

L8: Entry 11 of 29

File: USPT

Jun 25, 2002

US-PAT-NO: 6410295

DOCUMENT-IDENTIFIER: US 6410295 B1

TITLE: Alpha-amylase variants

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Andersen; Carsten Vaerl.o slashed.se DK K .o slashed.benhavn .O J.o slashed.rgensen; DK Christel Thea slashed. Bisg.ang.rd-Frantzen; Henrik Bagsvaerd DK DK Svendsen; Allan Birker.o slashed.d Kjaerulff; S.o slashed.ren Vanl.o slashed.se DK

US-CL-CURRENT: 435/202; 435/183, 435/200, 435/252.3, 435/320.1, 435/440

Full Title Citation Front Review Classification Date Reference Claims RMC Draw Do

12. Document ID: US 6361989 B1

L8: Entry 12 of 29 File: USPT Mar 26, 2002

US-PAT-NO: 6361989

DOCUMENT-IDENTIFIER: US 6361989 B1

TITLE: .alpha.-amylase and .alpha.-amylase variants

13. Document ID: US 6204232 B1

L8: Entry 13 of 29

File: USPT

Mar 20, 2001

US-PAT-NO: 6204232

DOCUMENT-IDENTIFIER: US 6204232 B1

TITLE: .alpha.-amlase mutants

14. Document ID: US 6197565 B1

L8: Entry 14 of 29

File: USPT

Mar 6, 2001

US-PAT-NO: 6197565

DOCUMENT-IDENTIFIER: US 6197565 B1

TITLE: .alpha.-Amylase variants

Full Title Citation Front Review Classification Date Reference 15. Document ID: US 6187576 B1 L8: Entry 15 of 29 File: USPT Feb 13, 2001

US-PAT-NO: 6187576

DOCUMENT-IDENTIFIER: US 6187576 B1

TITLE: .alpha.-amylase mutants

Full Title Citation Front Review Classification Date Reference Citation Claims KWMC Draws De 16. Document ID: US 5830837 A L8: Entry 16 of 29 File: USPT Nov 3, 1998

US-PAT-NO: 5830837

DOCUMENT-IDENTIFIER: US 5830837 A

** See image for Certificate of Correction **

TITLE: Amylase variants

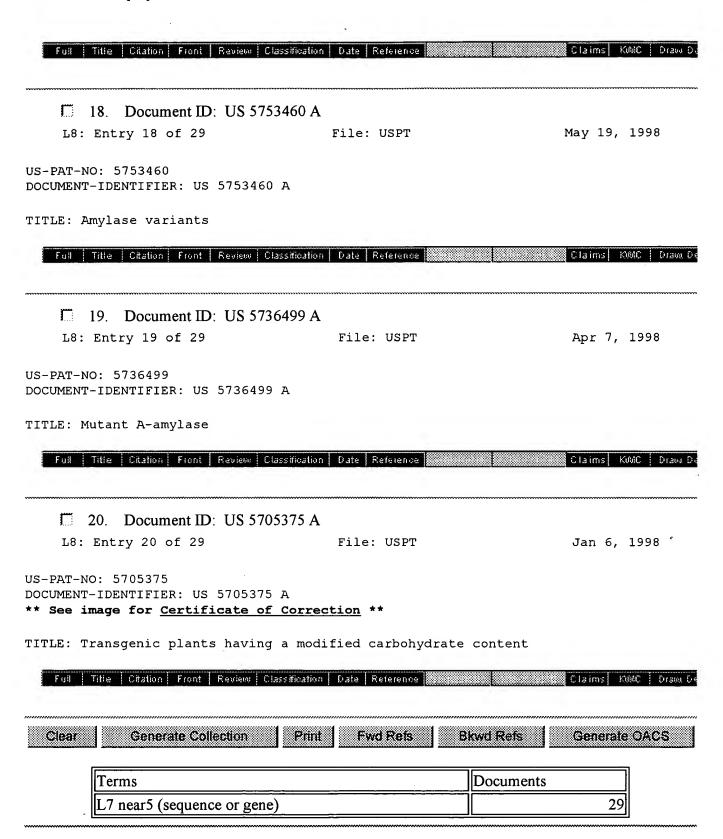
Full Title Citation Front Review Classification Date Reference Claims KOMC Draw Do 17. Document ID: US 5801043 A L8: Entry 17 of 29 Sep 1, 1998 File: USPT

US-PAT-NO: 5801043

DOCUMENT-IDENTIFIER: US 5801043 A

** See image for Certificate of Correction **

TITLE: Amylase variants



Display Format: - Change Format

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Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

Search Results - Record(s) 21 through 29 of 29 returned.

21. Document ID: US 5705362 A

Using default format because multiple data bases are involved.

L8: Entry 21 of 29

File: USPT

Jan 6, 1998

US-PAT-NO: 5705362

DOCUMENT-IDENTIFIER: US 5705362 A

TITLE: Modified signal sequences

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bonekamp; AlfonsusJohannes Delft NL Van Tilborg; Marcellis Wilhelmus Elisabeth Maria Leiden NL

US-CL-CURRENT: 435/69.8; 435/252.3, 435/252.31, 435/69.1, 530/350, 530/351,

536/23.1, 536/<u>23.2</u>, <u>536/23.4</u>, <u>536/23.5</u>, <u>536/23.7</u>

Full Title Citation Front Review Classification Date Reference Cla

File: USPT

US-PAT-NO: 5698415

DOCUMENT-IDENTIFIER: US 5698415 A

L8: Entry 22 of 29

** See image for Certificate of Correction **

TITLE: Bacillus promoter derived from a variant of a bacillus licheniformis X-

Full Title Citation Front Review Classification Date Reterence

amylase promoter

23. Document ID: US 5470725 A

L8: Entry 23 of 29

File: USPT

Nov 28, 1995

Claims KNAC Draw De

Dec 16, 1997

US-PAT-NO: 5470725

DOCUMENT-IDENTIFIER: US 5470725 A

Record List Display Page 2 of 3

TITLE: Thermostable (1,3-1,4)-.beta.-glucanase

Full Title Citation Front Review Classification Date Reference

24. Document ID: US 5084383 A

L8: Entry 24 of 29

File: USPT

Jan 28, 1992

US-PAT-NO: 5084383

DOCUMENT-IDENTIFIER: US 5084383 A

** See image for Certificate of Correction **

TITLE: Bacillus subtilis strain whose extracellular protease activities are reduced, method for obtaining the strain and method for secreting proteins by using the strain

Full Title Citation Front Review Classification Date Reference Claims KWC Draw D.

25. Document ID: US 5015574 A

L8: Entry 25 of 29 File: USPT May 14, 1991

US-PAT-NO: 5015574

DOCUMENT-IDENTIFIER: US 5015574 A

** See image for Certificate of Correction **

TITLE: DNA sequence involved in gene expression and protein secretion, expressionsecretion vector including the DNA sequence and the method of producing proteins by using the expression-secretion vector

Full Title Citation Front Review Classification Date Reference Claims NMC Draw De Claims NMC De

PUB-NO: EP000867504A1

DOCUMENT-IDENTIFIER: EP 867504 A1 TITLE: Oxidation-stable alpha-amylase

Full Title Citation Front Review Classification Date Reference Claims ROWC Drawn D.

To 27. Document ID: FR 2676456 A1

L8: Entry 27 of 29 File: EPAB Nov 20, 1992

PUB-NO: FR002676456A1

DOCUMENT-IDENTIFIER: FR 2676456 A1

TITLE: Thermostable variants of Bacillus licheniformis alpha -amylase, process for

preparing them and their use

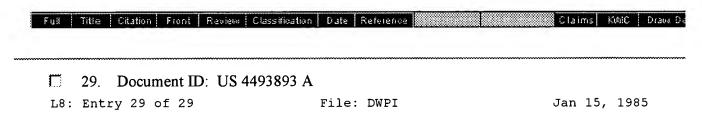
Full	Title	Citation	Frent	Review	Classification	Date	Reference			Claims	Kø	dC	Отам, Ок
	••••							***************************************					
	28.	Docum	ent ID	: FR 26	665178 A1								
F8	: Ent	ry 28 o	f 29			File:	EPAB		•	Jan 31	, :	1992	2

PUB-NO: FR002665178A1

DOCUMENT-IDENTIFIER: FR 2665178 A1

TITLE: Heat-stable variants of the alpha-amylase of Bacillus licheniformis, process

for their preparation and their use



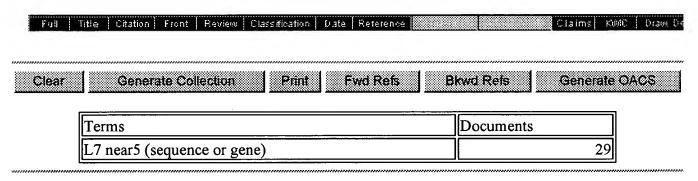
DERWENT-ACC-NO: 1985-031678

DERWENT-WEEK: 198505

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TITLE: Chimeric plasmid(s) contg. thermostable alpha-amylase gene - derived from

Bacillus stearothermophilus



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Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 11 returned.

1. Document ID: US 20040265959 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 11

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265959 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

CITY STATE COUNTRY RULE-47 NAME Araki, Hiroyuki Tochigi JΡ Tochigi JΡ Endo, Keiji Hagihara, Hiroshi Tochigi JP Igarashi, Kazuaki Tochigi JΡ JΡ Hayashi, Yasuhiro Tochigi Ozaki, Katsuya JP Tochigi

US-CL-CURRENT: $\underline{435}/\underline{69.1}$; $\underline{435}/\underline{204}$, $\underline{435}/\underline{252.3}$, $\underline{435}/\underline{320.1}$, $\underline{510}/\underline{320}$, $\underline{536}/\underline{23.2}$

ull Title (Ditation Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Отаки О
							. x			

2. Document ID: US 20040248279 A1

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040248279

PGPUB-FILING-TYPE: new

L13: Entry 2 of 11

DOCUMENT-IDENTIFIER: US 20040248279 A1

TITLE: Host microorganisms

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawada, Kazuhisa Haga-gun JP Endo, Keiji Haga-gun JP

JΡ Ozawa, Tadahiro Haga-gun JP Tohata, Masatoshi Haga-gun Ozaki, Katsuya Haga-gun JΡ

US-CL-CURRENT: 435/252.31; 424/200.1

Drawi De	KOMC	Claims	Attachments	Sequences	Reference	Date	Classification	Review	Front	Citation	Title	Full

3. Document ID: US 20040002431 A1

L13: Entry 3 of 11 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002431

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002431 A1

TITLE: Alkaline cellulase variants

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

COUNTRY RULE-47 NAME CITY STATE Hakamada, Yoshihiro JΡ Haga-gun JP Sawada, Kazuhisa Haga-gun JΡ Endo, Keiji Haga-gun JΡ Kodama, Hiroshi Haga-gun Wada, Yasunao Wakayama-shi JΡ JΡ Shikata, Shitsu Wakayama-shi Kobayashi, Tohru Haga-gun JP

US-CL-CURRENT: 510/226; 435/209, 435/252.3, 435/320.1, 435/69.1, 510/320, 536/23.2

Full	Title	Citation	Front	Review	Classification) Date	Reference	Sequences	Attachments	Claims	KOME	Draws D
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L13: Entry 4 of 11

Sep 5, 2002 File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020123124

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123124 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

CITY STATE COUNTRY RULE-47 NAME

Araki, Hiroyuki Haga-gun JΡ

b g ee e f h e b e ef ef b

<u>Endo,</u> Keiji	Haga-gun	JP
Hagihara, Hiroshi	Haga-gun	JP
Igarashi, Kazuaki	Haga-gun	JP
Hayashi, Yasuhiro	Haga-gun	JP
Ozaki, Katsuya	Haga-gun	JP

US-CL-CURRENT: $\underline{435}/\underline{202}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{325}$, $\underline{435}/\underline{69.1}$, $\underline{536}/\underline{23.2}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims MMC Draw De .

5. Document ID: US 6743616 B2
L13: Entry 5 of 11 File: USPT Jun 1, 2004

US-PAT-NO: 6743616

DOCUMENT-IDENTIFIER: US 6743616 B2

** See image for Certificate of Correction **

TITLE: Highly productive alpha-amylases

Full Title Citation Front Review C	lassification Date Reference	Claims KowC Draw De
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6. Document ID: JP 2002	112792 A	
L13: Entry 6 of 11	File: JPAB	Apr 16, 2002

PUB-NO: JP02002112792A

DOCUMENT-IDENTIFIER: JP 2002112792 A TITLE: HIGHLY PRODUCTIVE $\alpha-\Delta MYLASE$

Full Title Citation Front Review	Classification Date Reference	Claims KodC Draw De
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
7. Document ID: JP 200	1054392 A	
,, Dodding 12. 01 200		
L13: Entry 7 of 11	File: JPAR	Feb 27, 2001

PUB-NO: JP02001054392A

DOCUMENT-IDENTIFIER: JP 2001054392 A

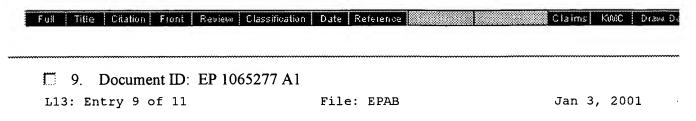
TITLE: $\underline{MUTANT} \alpha - \underline{AMYLASE}$

Full Title Citation From	it Review Classification	Date Reference	Claims	KOMC Drav
•••••••••••	······			
				
8. Document II): JP 2000245466 A			
	_			
L13: Entry 8 of 1	7	File: JPAB	Sep 12,	2000

PUB-NO: JP02000245466A

DOCUMENT-IDENTIFIER: JP 2000245466 A

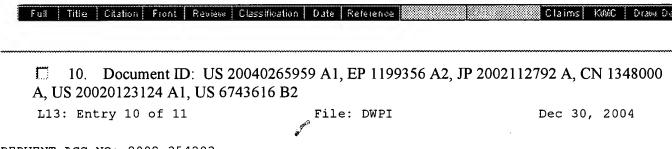
TITLE: MUTANT ALPHA-AMYLASE



PUB-NO: EP001065277A1

DOCUMENT-IDENTIFIER: EP 1065277 A1

TITLE: Mutant alpha-amylases

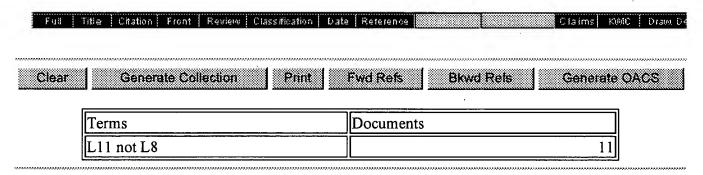


DERWENT-ACC-NO: 2002-354203

DERWENT-WEEK: 200503

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TITLE: New <u>mutant</u> alpha<u>-amylase</u>, useful in detergent compositions, comprises increased productivity when prepared recombinantly and better resistance to heat



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Clear	Generate Collection Gener	ate OACS	200000	Bkwd Refs
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Search Results - Record(s) 11 through 11 of 11 returned.

11. Document ID: EP 1065277 A1, JP 2001054392 A, CN 1277258 A

Using default format because multiple data bases are involved.

L13: Entry 11 of 11

File: DWPI

Jan 3, 2001

DERWENT-ACC-NO: 2001-073344

DERWENT-WEEK: 200176

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TITLE: A gene encoding a <u>mutant</u> alpha-amylase obtained by making replacement or

deletions of amino acid residues in a characteristic sequence

INVENTOR: ENDO, K; HAGIHARA, H ; HAYASHI, Y ; IGARASHI, K ; OZAKI, K

PRIORITY-DATA: 1999JP-0163569 (June 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1065277 A1	January 3, 2001	E	028	C12N015/56
JP 2001054392 A	February 27, 2001		024	C12N015/09
CN 1277258 A	December 20, 2000		000	C12N009/28

INT-CL (IPC): $\underline{\text{C11}}$ $\underline{\text{D}}$ $\underline{3}/386$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1}/\underline{15}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1}/\underline{19}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1}/\underline{21}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{5}/\underline{10}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{9}/\underline{28}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15}/\underline{66}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{15}/\underline{63}$; $\underline{\text{C12}}$ $\underline{\text{N}}$ $\underline{1}/\underline{21}$; $\underline{\text{C12}}$ $\underline{\text{R}}$ $\underline{1}:\underline{125}$

Full	litle Citation	Front Revie	w Classification	Date	Reference			Claims	KWC	Draw De
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